

IN THE CLAIMS

Please amend the claims as follows:

1. (Previously Presented) A porous composite product with a homogeneous structure having a property that renders it self-supportive, the product being provided in the form of a film, exhibiting a "BET" specific surface greater than $10 \text{ m}^2/\text{g}$ and being formed of a polymeric material consisting of non-fibrillated polymer and at least 20% by weight of at least one filler, the said product being obtained by extrusion and having an open porous structure, wherein the at least one filler exhibits a specific surface greater than $1000 \text{ m}^2/\text{g}$ and the mean diameter of a plurality of pores of the porous composite product is less than $0.5 \mu\text{m}$,

wherein the polymeric material comprises elastomers or polymers selected from the group consisting of polyolefins, acrylic polymers, aromatic polymers, polyamides, polyimides, and vinyl polymers,

wherein the polymeric material also comprises thermoplastic elastomers, soluble in polar organic solvents or water, which remain after the implementation of the manufacturing process, the thermoplastic elastomers selected from the group consisting of polyethers, poly(vinyl alcohol)s and ethylene-vinyl alcohol copolymers, and

wherein the thermoplastic elastomers, soluble in polar organic solvents or water, which remain after the implementation of the manufacturing process include polyethers with a molecular mass of between 200,000 and 1,000,000.

2-4. (Canceled)

2 ~~5~~. (Previously Presented) The composite product according to claim 1, wherein the polymeric material comprises elastomers or polymers selected from the group consisting of polyethylenes, polypropylenes, and ethylene- α -olefin copolymers.

6. (Canceled)

³
~~7.~~ (Previously Presented) The composite product according to claim 1, wherein the composite product is 10 to 40% by weight of the polyolefin material, 5 to 40% by weight of the polyether, and the remainder is the at least one filler.

⁴
~~8.~~ (Previously Presented) The composite product according to claim 1, wherein the filler is chosen from fillers with a high specific surface.

⁴
⁵
~~9.~~ (Previously Presented) The composite product according to claim ~~8~~, wherein the at least one filler exhibits a specific surface of between 1000 and 3000m²/g.

10-29. (Canceled)

⁸
~~30.~~ (Previously Presented) A porous composite product with a homogeneous structure having a property that renders itself supportive, the product being provided in the form of a film, the product being formed of a polymeric material consisting of non-fibrillated polymers, the product exhibiting a specific surface greater than 10m²/g and comprising between 30% and 85% by weight of at least one filler and the product being obtained by extrusion and having an open porous structure, wherein the at least one filler exhibits a specific surface greater than 1000m²/g and the mean diameter of a plurality of pores of the porous composite product is less than 0.5µm,

wherein the polymeric material comprises elastomers or polymers selected from the group consisting of polyolefins, acrylic polymers, aromatic polymers, polyamides, polyimides, and vinyl polymers,

wherein polymeric material also comprises thermoplastic elastomers, soluble in polar organic solvents or water, which remain after the implementation of the manufacturing process, the thermoplastic elastomers selected from the group of consisting of polyethers, poly(vinyl alcohol)s and ethylene-vinyl alcohol copolymers, and

wherein the thermoplastic elastomers, soluble in polar organic solvents or water, which remain after the implementation of the manufacturing process include polyethers with a molecular mass of between 200,000 and 1,000,000.

31-33 (Canceled)

34. (Canceled)

35. (Cancelled)

8
9 ~~36~~. (Previously Presented) The composite product according to claim ~~30~~, wherein the polymeric material comprises elastomers or polymers selected from the group consisting of polyethylenes, polypropylenes, and ethylene- α -olefin copolymers.

37-39. (Cancelled)

8
10 ~~40~~. (Previously Presented) The composite product according to claim ~~30~~, wherein the composite product is 10 to 40% by weight of the polyolefin, 5 to 40% by weight of the polyether, and the remainder is the at least one filler.

8
11 ~~41~~. (Previously Presented) The composite product according to claim ~~30~~, wherein the at least one filler is chosen from fillers with a high specific surface.

11
12 ~~42~~. (Previously Presented) The composite product according to claim ~~41~~, wherein the at least one filler is chosen from fillers composed of active charcoal, inorganic particles or metallic particles.

11
13 ~~43~~. (Previously Presented) The composite product according to claim ~~41~~, wherein the at least one filler exhibits a specific surface of between 1000 and 3000 m²/g.

8
14 ~~44~~. (Previously Presented) The composite product according to claim ~~30~~, wherein the product includes 50 to 85% by weight of the at least one filler.

45. (Canceled)

15
~~46.~~ (Previously Presented) The composite product according to claim ~~30~~⁸, wherein the product exhibits a "BET" specific surface of greater than 20m²/g.

47. (Canceled)

16
~~48.~~ (Previously Presented) The composite product according to claim 30, wherein the product in the form of a film exhibits a tensile strength at break of greater than 4MPa.

17
~~49.~~ (Previously Presented) The composite product according to claim ~~48~~¹⁶, wherein the product exhibits a tensile strength at break of greater than 6MPa.

50-110. (Canceled)

111. (Canceled)

7 ~~112.~~ (Previously Presented) The composite product according to claim 1, wherein the polymeric material comprises elastomers or polymers selected from the group consisting of thermoplastic polymers or elastomers, soluble in polar organic solvents or water, which remain after the implementation of the manufacturing process.

113-114. (Cancelled)

6 ~~115.~~ (Previously Presented) The composite product according to claim ~~8~~⁴, wherein the at least one filler is chosen from fillers composed of active charcoal, inorganic particles or metallic particles.